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ICA (Independent

Component Analysis) in

matlab - Stack ...

Independent

component analysis

(ICA) is a method for

separating a

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Component

Analysis
multivariate signal into
subcomponents,
supposing the mutual
statistical

independence of the
non-Gaussian source
signals. It is a case of
blind source separation
or blind signal
separation. Matlab
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ICA (Independent

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matlab - Stack ...

Independent component analysis (ICA) is a method for separating a multivariate signal into subcomponents, supposing the mutual statistical independence of the non-Gaussian source signals. It is a case of blind source separation or blind signal separation.

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The block diagram
covers CDMA
transmitter and CDMA
receiver. CDMA
transmitter consists of
FEC
encoder(convolution
encoder), BPSK
modulator and

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spreading module.

CDMA receiver consists of reverse modules of transmitter part viz. despreading, BPSK demodulator and viterbi decoder.

Following is the CDMA matlab code and BER curve. BER curve is obtained after passing the data through the AWGN.

CDMA basic transmitter receiver matlab code | CDMA

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matlab ...

Component

analysis

(ICA) is a method for

separating a

multivariate signal into

subcomponents,

supposing the mutual

statistical

independence of the

non-Gaussian source

signals. It is a case of

blind source separation

or blind signal

separation. Definitions

Multivariate statistics

Multivariate statistics

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or multivariate
statistical analysis in

statistics describes a
collection of

procedures:

observation and

analysis of more than

one statistical variable

at a time.

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Component Analysis

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Component Analysis

(ICA) [8] involves the

task of computing the

matrix projection of a

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Independent Component Analysis

set of components onto another set of so called independent component. Here, the objective is to maximize the statistical independence of the outputs. If the inputs to the ICA are known to be linear

Performance Analysis of Independent Component Analysis

...

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This work presents the application of the theory and algorithms of Independent Component Analysis (ICA) to blind multiuser symbol estimation in downlink of Direct-Sequence Code Division Multiple Access (DS-CDMA) communication system.

**An application of
independent
component analysis**

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Independent
to DS ...

Could you provide an
example of ICA
Independent

Component Analysis IN
MATLAB? I know PCA is
implemented in matlab
but ICA, what about
RCA? matlab. share |
improve this question |
follow | asked Feb 13
'11 at 19:47.

edgarmtze edgarmtze.

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badges 216 216 silver

badges 356 356 bronze

badges.

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ICA (Independent Component Analysis) in matlab - Stack ...

Functions. This package contains functions that implement Principal Component Analysis (PCA) and Independent Component Analysis (ICA). PCA and ICA are implemented as functions in this package, and multiple examples are included

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Component Analysis
to demonstrate their use. In PCA, multi-dimensional data is projected onto the singular vectors corresponding to a few of its largest singular values.

PCA and ICA

Package - File

Exchange - MATLAB

Central

Description. Mdl = rica

(X,q) returns a

reconstruction

independent

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Component Analysis (RICA) model object that contains the results from applying RICA to the table or matrix of predictor data X containing p variables. q is the number of features to extract from X , therefore `rica` learns a p -by- q matrix of transformation weights.

**Feature extraction
by using**

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**reconstruction ICA -
MATLAB rica**

Introduction.

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Component Analysis is

a signal processing

method to separate

independent sources

linearly mixed in

several sensors. For

instance, when

recording

electroencephalograms

(EEG) on the scalp, ICA

can separate out

artifacts embedded in

the data (since they

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are usually independent of each other).

ICA for dummies - Arnaud Delorme

FMRLAB is a Matlab toolbox for fMRI data analysis using Independent Component Analysis (ICA). It provides an integrated environment to manage, process and analyze fMRI data in a single framework so

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that users can

complete the analysis

without switching

between software.

Home Page of FMRLAB

independent

components; as they

are random variables,

the most natural way

to do this is to assume

that each has unit

variance: $E\{s_i^2\} = 1$.

Note that this still

leaves the ambiguity of

the sign: we could

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multiply the an independent component by -1 without affecting the model. This ambiguity is, fortunately, insignificant in most applications.

Independent Component Analysis (ICA)

COURSE PAGE: faculty.washington.edu/kutz/KutzBook/KutzBook.html
This lecture gives an introduction the

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concept of

independent

component analysis

whereby PCA ...

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Component Analysis

1 - YouTube

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Component Analysis of

EEG data Decomposing

data by ICA (or any

linear decomposition

method, including PCA

and its derivatives)

involves a linear

change of basis from

data collected at single scalp channels to a spatially transformed "virtual channel" basis.

Chapter 09: Decomposing Data Using ICA - SCCN

Principal Component Analysis, or PCA, is a dimensionality-reduction method that is often used to reduce the dimensionality of large data sets, by transforming a large set of variables into a

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Analysis

smaller one that still contains most of the information in the large set.

A Step by Step Explanation of Principal Component Analysis

An earlier post to this blog demonstrated linear unmixing variables using the PCA with MATLAB. A second post explained the use of the principal component analysis

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(PCA) to decipher the

statistically

independent

contribution of the

source rocks to the

sediment compositions

in the Santa Maria

Basin, NW Argentine

Andes. References

Principal Component

Analysis in 6 Steps -

MATLAB Recipes ...

In my M. Phil thesis, I

have worked on Code

Division Multiple

Access (CDMA) and

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Component Analysis. It is proposed that chaotic codes obtained through chaotic maps are statistically independent as compared with conventional Pseudo noise codes and performance can be improved if statistical independence of codes is utilized.

Muhammad Irfan

Anjum | University of

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